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TITLE: Water-resistant and oil-resistant textiles

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PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan

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PATENT INFORMATION:

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AB Water- and oil-resistant cotton or polyester fabrics with improved hand were prep'd. by mixing a poly(dimethylsiloxane) or Me H polysiloxane (I) with a polymer based on RZCO₂CR₁:CH₂, where R is a C₄-15 perfluoroalkyl group, Z is a C₁-10 alkylene, and R₁ is H or Me, and finishing the fabric with the mixt. Thus, an ***emulsion*** contg. a mixt. (A) of a 4:3:2:1 CH₂:CHCO₂(CH₂)₃(CF₂)₄CF(CF₃)₂-CH₂:CHCO₂(CH₂)₃(CF₂)₆CF(CF₃)₂-CH₂:CHCO₂(CH₂)₃(CF₂)₈CF(CF₃)₂-CH₂:CHCO₂(CH₂)₃(CF₂)₁₀CF(CF₃)₂ copolymer [***68508-80-5***] 73, Et ***acrylate*** 25, and diacetone acrylamide 2 wt.% 100, an emulsifier 9, and C₁₈H₃₇N+Me₃Cl- 1 part and I were mixed. A polyester doeskin was immersed in the resulting mixt. to 90% pickup, dried, and heated 1 min at 170.degree. to give a smooth water- and oil-resistant fabric with A mixt. content 0.04% and I content 0.02%, whereas the hand of a fabric treated with a similar compn. without I was not smooth.

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